

1 BILL NO. S-82-10- 28

2 SPECIAL ORDINANCE NO. S 206-82

3 AN ORDINANCE approving Change Orders
4 No. 3, 4 and 5, Project No. C-180774-03,
Water Quality Control Project, in con-
5 nection with the Board of Public Works.

6 BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF
7 FORT WAYNE, INDIANA:

8 SECTION 1. That Change Orders No. 3, 4 and 5, Project
9 No. C-180774-03, Water Quality Control Project, with Hagerman-
10 Shambaugh, Joint Bidders, in connection with the Board of Public
11 Works, for:

12 the reduction of work to be performed on
the federally funded AWT Project, Phases
13 A, B, and C, at the Water Pollution Control
Plant;

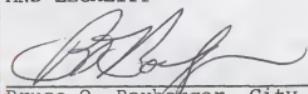
14 involving a total net decrease in the amount of Three Hundred
15 Twenty-Eight Thousand Nine Hundred Thirty-Six and No/100 Dollars
16 (\$328,936.00), (Change Order No. 3 involves a decrease in the
17 amount of \$234,055.00; Change Order No. 4 involves a decrease
18 in the amount of \$92,729.00; and Change Order No. 5 involves
19 a decrease in the amount of \$2,152.00), all as more particularly
20 set forth in the specifications, and which are on file in the
21 Office of the Board of Public Works, and are by reference
22 incorporated herein, made a part hereof, and are hereby in all
23 things ratified, confirmed and approved.

25 SECTION 2. That this Ordinance shall be in full force
26 and effect from and after its passage and any and all necessary
27 approval by the Mayor.



Dan R. Dennis.
Councilmember

30 APPROVED AS TO FORM
31 AND LEGALITY

32 
Bruce O. Boxberger, City Attorney

Read the first time in full and on motion by Burns,
seconded by Estrich, and duly adopted, read the second time
by title and referred to the Committee Ed. White (and the City
Plan Commission for recommendation) and Public Hearing to be held after
due legal notice, at the Council Chambers, City-County Building, Fort Wayne,
Indiana, on , 1982, at o'clock .M., E.S.T.

DATE: 10-26-82

Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

Read the third time in full and on motion by Burns,
seconded by Estrich, and duly adopted, placed on its
passage. PASSED (LOSED) by the following vote:

	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAINED</u>	<u>ABSENT</u>	<u>TO-WIT:</u>
<u>TOTAL VOTES</u>	<u>8</u>	<u> </u>	<u> </u>	<u>1</u>	<u> </u>
<u>BRADBURY</u>	<u>X</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>BURNS</u>	<u>X</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>EISBART</u>	<u>X</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>GiaQUINTA</u>	<u> </u>	<u> </u>	<u> </u>	<u>X</u>	<u> </u>
<u>SCHMIDT</u>	<u>X</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>SCHOMBURG</u>	<u>X</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>SCRUGGS</u>	<u>X</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>STIER</u>	<u>X</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>TALARICO</u>	<u>X</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

DATE: 11-9-82

Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne,
Indiana, as (ZONING MAP) (GENERAL) (ANNEXATION) (SPECIAL)
(APPROPRIATION) ORDINANCE (RESOLUTION) NO. J-206-82
on the 9th day of November, 1982.

ATTEST:

(SEAL)

Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

Samuel J. Talarico
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on
the 10th day of November, 1982, at the hour of
11:30 o'clock A.M., E.S.T.

Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

Approved and signed by me this 11th day of Nov.
1982, at the hour of 9 o'clock A.M., E.S.T.

Win Moses, Jr.
WIN MOSES, JR. - MAYOR

BILL NO. S-82-10-28

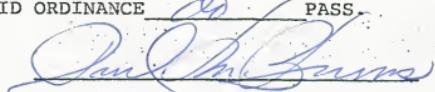
REPORT OF THE COMMITTEE ON CITY UTILITIES

WE, YOUR COMMITTEE ON City Utilities TO WHOM WAS REFERRED AN
ORDINANCE approving Change Orders No. 3,4 and 5, Project No.

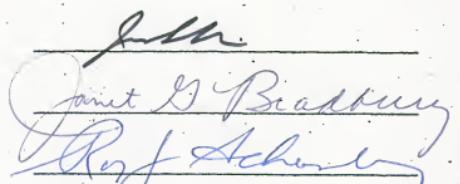
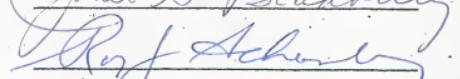
C-180774-03, Water Quality Control Project, in connection with the
Board of Public Works

HAVE HAD SAID ORDINANCE UNDER CONSIDERATION AND BEG LEAVE TO REPORT
BACK TO THE COMMON COUNCIL THAT SAID ORDINANCE as PASS.

PAUL M. BURNS - CHAIRMAN



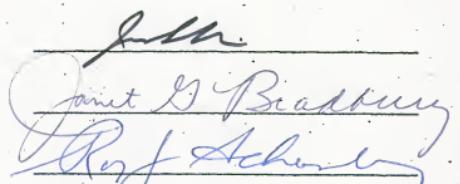
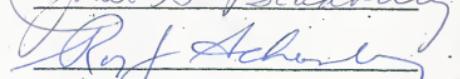
MARK E. GIAQUINTA - VICE CHAIRMAN

JAMES S. STIER



JANET G. BRADBURY

ROY J. SCHOMBURG

11-9-82

DATE

CONCURRED IN
CHARLES W. WESTERMAN, CITY CLERK

Water Quality Control Project
AWT - Phases A, B & C
City of Fort Wayne, Indiana
Justification For Change
Change Order No. 5
Page -3-

II. WILL PROPOSED CHANGE ALTER SIZE OF PROJECT:

The proposed change described herein will not significantly alter the existing design flow or size of this project.

III. EFFECT ON OPERATION AND MAINTENANCE OF THIS PROJECT:

The above items are such that some of them have the potential to cause increased maintenance costs at the plant.

IV. TIME OF COMPLETION:

These changes will not affect the time of completion of the project.

Water Quality Control Project
AWT - Phases A, B & C
City of Fort Wayne, Indiana
Justificaton For Change
Change Order No. 5
Page -2-

Item No. 4

The Coordinated Power Study specified to be performed under this project recommended this item as one which could benefit the operation of the electrical distribution system. The addition of the circuit breaker will provide needed protection and reliability to the electrical system.

The Coordinated Power Study as required in the contract documents identified item nos. 5, 6, 7 and 8 which would reduce the project cost without hindering the reliability of the electrical distribution system.

Item No. 5

Substitution of conduit and wire in lieu of the specified busway will provide necessary service at a lower cost.

Item No. 6

Reducing the AIC rating of the blower building switchgear will provide for adequate service at a lower cost.

Item No. 7

Ground Fault Protection can be deleted from the main circuit breaker in the new blower building without any potential harm being done to the system.

Item No. 8

Deletion of this new breaker by tieing two together will provide the same function at a lower cost.

Item No. 9

The present condition of the gas storage spheres is such that the work can be delayed to a later date to be accomplished by City forces.

WATER QUALITY CONTROL PROJECT

AWT - PHASES A, B & C
CITY OF FORT WAYNE, INDIANA

JUSTIFICATION FOR CHANGE

CHANGE ORDER NO. 5

I. NECESSITY FOR CHANGE:

Item No. 1

The river crossing system concept provides that the solution piping could be removed and replaced in case of a leak in the future. The change in solution piping material from rigid PVC to PVC hose will make the removal and replacement process easier for City maintenance personnel. The realignment of the crossing will reduce the actual crossing distance to approximately 300 ft. Since the solution hose is available in 300 ft. lengths, the crossing can be made without any intermediate connections. The elimination of joints should improve reliability, and the hose itself will provide a superior system for maintenance.

Item No. 2

During installation of the piping system, it was discovered that the existing line at the point of the new connection is deeper than recorded. The work involved in making the tie-in at that deeper elevation would have involved sheeting and dewatering activities which would have required considerable additional costs. It was determined that by moving the connection point to the new location, the minimum additional costs would be incurred.

Item No. 3

Preceeding installation of the reaeration effluent piping, a check of existing conditions showed an elevation difference of approximately 4.75'. This difference could not be made up by the piping as designed and a new fitting is required to be made and installed.

CHANGE ORDER NO. 5

PAGE -3-

Description of Change:AddDeductItem No. 8

Provide all necessary labor and material to make the following change: Delete new 52 breaker for Blower No. 5. Tie the existing 52 breakers 201 and 203 directly to the "B" Main Bus. Wire service to Blower No. 5 from existing 52 breaker 101.

\$ 3,840.00

Item No. 9

Delete all labor and material related to the coating of the two (2) gas spheres as specified under Section D-15, Coating.

4,000.00

TOTALS

\$ 8,734.00

\$10,886.00

Net Change - Deduct

\$ 2,152.00TIME:

These changes shall not affect the time for completion of the project.

PREPARED BY:

HOWARD NEEDLES TAMMEN & BERGNEDOFF

By Ray N. KocherTitle Proj. Manager Date 10/13/82

ACCEPTED:

HAGERMAN-SHAMBAUGH, Joint Bidders
ACCEPTED FOR HAGERMAN CONSTRUCTION CORP.
CONTRACTOR

By J. F. Hagerman
Title RES. Date 10/13/82

ACCEPTED FOR SHAMBAUGH & SON, INC.
CONTRACTOR

By H. E. Bell
Title Secy Date 10/17/82

APPROVED:

CITY OF FORT WAYNE, INDIANA
OWNER

By K. T. O'Brien
Stephen A. Bailey, ChairmanR. Anderson

Roberta Anderson Staten, Member

By Betty R. Collins, Member

Title BOARD OF PUBLIC WORKS

Date 10-13-82

Recommended for Payment
Department of Water Resources

Date Oct 13 1982 By B. Scholten

PAGE NO. 2

CHANGE ORDER NO. 5

PROJECT AWT - Phases A, B and C - Fort Wayne, Indiana

Add

Deduct

Item No. 4

Provide all necessary labor and material to add
a 300 A, 3 P low voltage molded circuit
breaker to the secondary section of the
225 KVA outdoor pad mounted transformer.

\$ 2,800.00

Item No. 5

Furnish all necessary labor and material
required to delete the armor clad busway
between the existing west and north sub-
stations and substitute with conduit and
wire.

\$ 300.00

Item No. 6

Change the 480 volt blower building switchgear
Assymetrical Interrupting Current rating from
42,000 amps to 30,000 amps.

1,600.00

Item No. 7

Delete the Ground Fault Protection (GFP) on the
main 800 A circuit breaker in the new 480 V
blower building switchgear.

550.00

PROJECT Water Quality Control Project OWNER City of Fort Wayne, IndianaDIVISION/SECTION AWT - Phases A, B and C (EPA Project No. C180774-03)CHANGE ORDER NO. 5

TO: Hagerman-Shambaugh, Joint Bidders
510 W. Washington Blvd. P.O. Box 10690
Fort Wayne, Indiana 46853-0690

You are hereby authorized to make the following additions and/or deductions to your contract amount.

Previous Contract Amount	Increase	Decrease	Net Change (Deduct)	Revised Contract Amount
TOTAL \$ <u>12,560,084.75</u>	\$ <u>8,734.00</u>	\$ <u>10,886.00</u>	\$ <u>2,152.00</u>	\$ <u>12,557,932.75</u>

Description of Change:	Add	Deduct
<u>Item No. 1</u>		

Revise the river crossing system as follows:

- (a) Delete the river crossing encasement system as detailed on Plan Sheet Y-1 (4).
- (b) Reroute the river crossing per attached Sketch A.
- (c) Construct the river crossing using 15" PVC casing pipe and 8" PVC hose. \$ 596.00

Item No. 2

Furnish all necessary labor and materials to revise the connection of the new 12" pond sludge force main from the detail on Sheet PS-4 (44) to that as shown on the attached sketch B. The revised work consists of substituting a 12" wye for a 12" tee, adding approximately 110 LF 12" D.I. pipe, 3 - 12" 45° fittings and additional landscaping.

\$ 3,473.00

Item No. 3

Furnish all necessary labor and materials to revise the 85" x 54" CMP effluent piping from existing pond 3 outfall. The revision shall consist of adding approximately 10' fitting to drop the pipe invert elevation approximately 4.75'. The new fitting to be installed between the 15° bend and WYE fitting as shown on Sheet P-3 (34).

2,461.00

Water Quality Control Project
AWT - Phases A, B & C
City of Fort Wayne, Indiana
Justification For Change
Change Order No. 4
Page -3-

Item No. 12

The City of Fort Wayne inspection team is currently taking periodic construction progress photos. It is anticipated that these photos will be taken specifically to provide for construction records.

II.

WILL PROPOSED CHANGE ALTER THE SIZE OF PROJECT:

The proposed change described herein will not significantly alter the existing design flow or size of this project.

III.

EFFECT ON OPERATION AND MAINTENANCE OF THIS PROJECT:

The above items are such that some of them have the potential to cause increased maintenance costs at the plant.

IV.

TIME OF COMPLETION:

These changes will not affect the time of completion of the project.

Water Quality Control Project
AWT - Phases A, B & C
City of Fort Wayne, Indiana
Justification For Change
Change Order No. 4
Page -2-

Item No. 6

The majority of the plant site is now and will be covered with crushed stone. The bulk of the concrete walks would lie within these crushed stone covered areas. The deletion of the walks will not appreciably affect convenience around the plant site.

Item No. 7

The quality of the concrete work prior to finish rubbing has been of excellent quality to date. The deletion of the rubbing requirement will not markedly affect the finished appearance of the concrete and will in no way affect its durability.

Item No. 8

Due to the financial posture of the City of Fort Wayne, the water pollution control utility, has recently undergone staffing reductions of its maintenance personnel. This maintenance item would not be effectively utilized with the current staffing level.

Item No. 9

The deletion of only the asphalt portion of the road will provide a road surface at a lower cost. It is anticipated that the City will install the asphalt at a later date.

Item No. 10

The amount of disturbance to the area around the terminal ponds should be minimal and natural growth is expected to quickly recover most of these areas. City forces will attend to any area which appears to be in danger of erosion.

Item No. 11

The deletion of analytical laboratory equipment in Change Order No. 3 virtually eliminates the necessity for this water purification equipment.

WATER QUALITY CONTROL PROJECT

AWT - PHASES A, B & C
CITY OF FORT WAYNE, INDIANA

JUSTIFICATION FOR CHANGE
CHANGE ORDER NO. 4

1. NECESSITY FOR CHANGE:

The deletion of these items is an effort to reduce the total project cost. The following is additional justification for each item.

Item No. 1

Due to financial posture of the water pollution utility, the City of Fort Wayne has recently undergone staffing reductions throughout its water pollution control utility which reduced the total number of maintenance personnel. This maintenance equipment would not be effectively utilized with the current staff level.

Item No. 2

Although currently adequate, the existing metal cover plates on the Y-walls as well as those concrete slabs to be replaced, have only limited additional life and will need to be replaced by City forces in the future.

Item No. 3

This piping system is presently utilized infrequently. At such time as it is used with greater regularity, City forces will need to make these repairs.

Item No. 4

The areas along the route of the sludge force main had previously been overgrown. It is not expected that those areas will be maintained in condition necessitating grass cover.

Item No. 5

The service road along the terminal ponds handle only infrequent maintenance traffic. It is anticipated that the City will install the asphalt at a later date.

PROJECT AWT - Phases A, B & C

CHANGE ORDER NO. 4

PAGE -3-

Description of Change:

Add

Deduct

Item No. 10

Delete the landscaping (seeding and ground cover) of all disturbed areas around the sludge holding tanks, chlorine channel improvements, and the reaeration structure. Rip-rap to remain as shown.

\$ 10,000.00

Item No. 11

Delete the Automatic Still as specified in Section D29-17 K.

2,200.00

Item No. 12

Delete the monthly progress photos beginning October, 1982. Aerial photos are not to be deleted.

1,800.00

TOTALS

\$ -0-

\$ 92,729.00

Net Change - Deduct

\$ 92,729.00

TIME:

These changes shall not affect the time for completion of the project.

PREPARED BY:

HOWARD NEEDLES TAMMEN & BERGNER OFF

By Ray H. Kocher

Title Proj Mgr. Date 10/13/82

ACCEPTED:

HAGERMAN-SHAMBAUGH, Joint Bidders
ACCEPTED FOR HAGERMAN CONSTRUCTION CORP.
CONTRACTOR

By J. H. Hagerman
Title Proj. Mgr. Date 10/13/82

ACCEPTED FOR SHAMBAUGH & SON, INC.
CONTRACTOR

By R. J. Shambaugh
Title Proj. Mgr. Date 10/13/82

APPROVED:

CITY OF FORT WAYNE, INDIANA
OWNER

By Stephen A. Bailey, Chairman
12/8/82

Roberta Anderson Staten, Member

Betty R. Collins, Member
Title BOARD OF PUBLIC WORKS

Date 10-13-82

Recommended for Payment
Department of Water Resources

Date Oct. 13, 1982 By J. P. Bell

PAGE NO. 2

CHANGE ORDER NO. 4

PROJECT AWT - Phases A, B & C - Fort Wayne, Indiana

	<u>Add</u>	<u>Deduct</u>
<u>Item No. 4</u>		
Delete all labor and material associated with reseeding the areas disturbed by the installation of both the 12-inch sludge force main and the pond sludge lines on dike embankments. This does not include the that work area within the golf course near U.S. 30.		2,000.00
<u>Item No. 5</u>		
Delete the labor and materials associated with the placement of asphaltic concrete for the restoration of the service road disturbed during the installation of both the 12-inch sludge force main and the pond sludge lines. This only deletes the asphalt. The road base is to be restored as detailed in the contract documents.		4,200.00
<u>Item No. 6</u>		
Delete the installation of all concrete walkways from the project. Install crushed stone in the areas of all deleted walks.		\$ 7,200.00
<u>Item No. 7</u>		
Delete the rubbing of concrete from all concrete surfaces as yet uncompleted.		9,694.00
<u>Item No. 8</u>		
Delete the maintenance vehicle as specified in Section D11-28.		1,767.00
<u>Item No. 9</u>		
Delete the installation of all asphaltic pavement shown on Plan Sheets S-12 and BB-1. Only the asphaltic concrete is to be deleted. The road base is to be constructed as detailed in the contract documents, with the stone base raised to final grade of the deleted asphalt.		6,200.00

PROJECT Water Quality Control Project OWNER City of Fort Wayne, IndianaDIVISION/SECTION AWT - Phases A, B and C (EPA Project No. C180774-03)CHANGE ORDER NO. 4

TO: Hagerman-Shambaugh, Joint Bidders
510 W. Washington Blvd. P.O. Box 10690
Fort Wayne, Indiana 46853-0690

You are hereby authorized to make the following additions and/or deductions to your contract amount.

Previous Contract Amount	Increase	Decrease	Net Change (Deduct)	Revised Contract Amount
TOTAL \$ 12,652,813.75	\$ -0-	\$ 92,729.00	\$ 92,729.00	\$ 12,560,084.75

Description of Change:	Add	Deduct
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Item No. 1

Delete the following pieces of equipment:

- (a) Portable Welder/Generator (Item D11-16) \$ 3,990.00
- (b) Band Saw Machine (Item D11-17). 267.00
- (c) Portable Pressure Washer (Item D11-18) 3,089.00
- (d) Portable Pump (Item D11-24). 2,079.00

Item No. 2

Delete all labor and material associated with the installation of 130 precast concrete walk slabs at the existing Aeration Tanks as shown on plan sheets MD-4 (51) and MD-5 (52). The existing metal plates are to remain at the swing diffuser assemblies on Aeration Tank Nos. 4 and 5.

4,870.00

Item No. 3

Delete all labor and material associated with the installation of the approximately 60 internal repair bands to be installed in the interconnection piping between Terminal Pond Nos. 1 & 2.

33,373.00

WATER QUALITY CONTROL PROJECT

AWT - PHASES A, B, & C
CITY OF FORT WAYNE, INDIANA

JUSTIFICATION FOR CHANGE

CHANGE ORDER NO. 3

I. NECESSITY FOR CHANGE:

Item No. 1

The City of Fort Wayne has found it prudent to reduce its manpower to a minimum throughout the water pollution control utility due to the overall economic picture of the community. Therefore, this equipment will not be utilized by its current staff level, and its elimination will not hinder the operation of the plant.

II. WILL PROPOSED CHANGE ALTER SIZE OF PROJECT:

The proposed change described herein will not significantly alter the existing design flow or size of this project.

III. AFFECT ON OPERATION AND MAINTENANCE OF THIS PROJECT:

It is the Engineer's professional opinion that the above item will not adversely affect operability and maintenance at the plant.

IV. TIME OF COMPLETION:

These changes will not affect the time of completion of the project.

PROJECT Water Quality Control Project OWNER City of Fort Wayne, Indiana

SECTION AWT - Phases A, B, and C (EPA Project No. C810774-03)

CHANGE ORDER NO. 3

TO: Hagerman-Shambaugh, Joint Bidders
 510 W. Washington Blvd., P.O. Box 106901
 Fort Wayne, Indiana 46853-0690

You are hereby authorized to make the following additions and/or deductions to your contract amount.

Previous Contract Amount	Increase	Decrease	Net Change (Deduct) Add	Revised Contract Amount
TOTAL \$12,886,868.75	\$ -0-	\$234,055.00	\$234,055.00	\$12,652,813.75

Description of Change: Add Deduct

Item No. 1

Delete the following laboratory equipment items:

a. Gas Chromatograph/Mass Spectrometer (Item D11-3)	\$215,200.00
b. UV-Visible Spectrophotometer (Item D11-9)	<u>18,855.00</u>
TOTALS	\$ -0- <u>\$234,055.00</u>

Net Change - Deduct \$234,055.00

TIME:

These changes shall not affect the time for completion of the project.

PREPARED BY:

HOWARD NEEDLES TAMMEN & BERGENDOFF

By Ray N. KocherTitle Proj. Manager Date 10/13/82

ACCEPTED:

HAGERMAN-SHAMBAUGH, Joint Bidders
ACCEPTED FOR HAGERMAN CONSTRUCTION CORP.
CONTRACTOR

By Mark F. HagermanTitle Proj. Mgr. Date 10/13/82

ACCEPTED FOR SHAMBAUGH & SON, INC.
CONTRACTOR

By Brian J. BollerTitle Proj. Mgr. Date 10/13/82

APPROVED:

CITY OF FORT WAYNE, INDIANA (OWNER)

By Stephen A. Bailey, ChairmanBy Roberta Anderson Staten, Member

Betty R. Collins, Member

Title: BOARD OF PUBLIC WORKS

Date: 10-13-82Recommended for Payment
Department of Water ResourcesDate Oct. 13, 1982 By PF Boller

TITLE OF ORDINANCE CHANGE ORDERS 3, 4, & 5, WATER QUALITY CONTROL PROJECT, C-180774-03

DEPARTMENT REQUESTING ORDINANCE Board of Public Works *J-82-10-28*

SYNOPSIS OF ORDINANCE These change orders will result in a deduction of the work
to be performed on the Federally funded AWT Project at the WPC Plant.

EFFECT OF PASSAGE

EFFECT OF NON-PASSAGE

MONEY INVOLVED (DIRECT COSTS, EXPENDITURE, SAVINGS) CHANGE ORDER # 3 - Net Decrease of
\$234,055.00; C.O.# 4 - Net Decrease - \$92,729.00; C.O.#5 - Net Decrease - \$2,152.00

ASSIGNED TO COMMITTEE